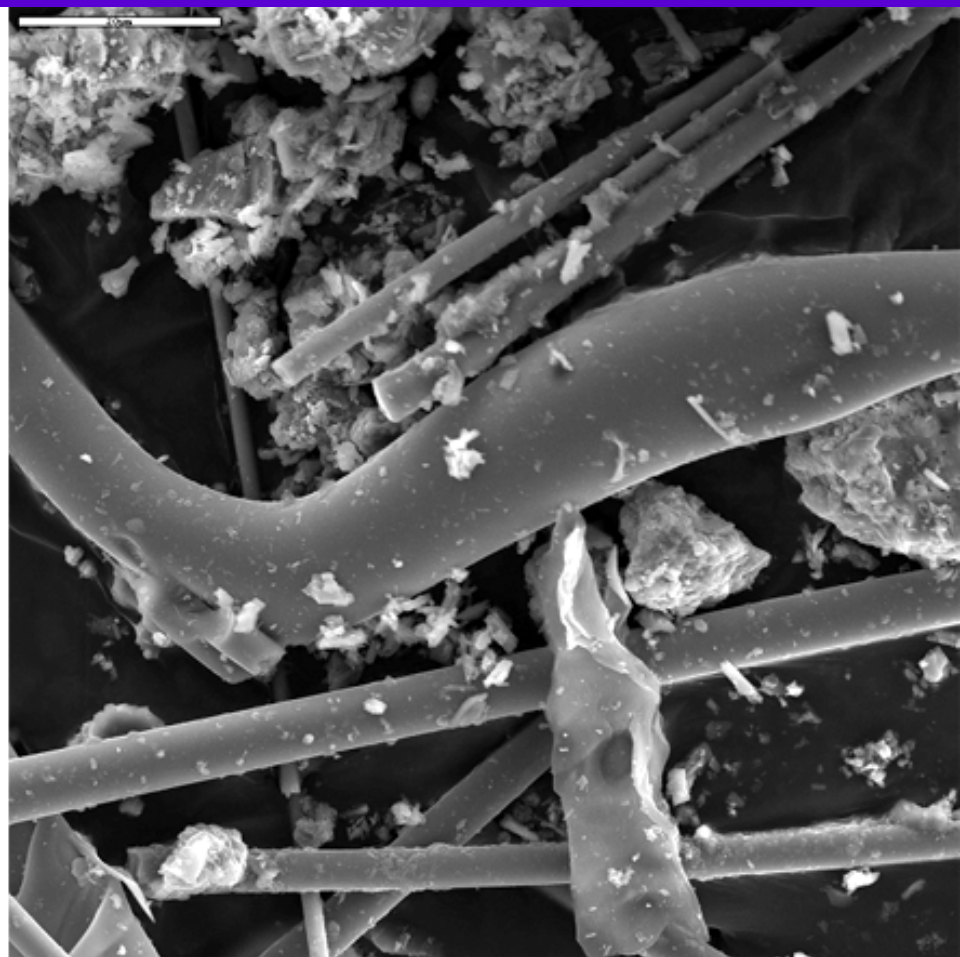
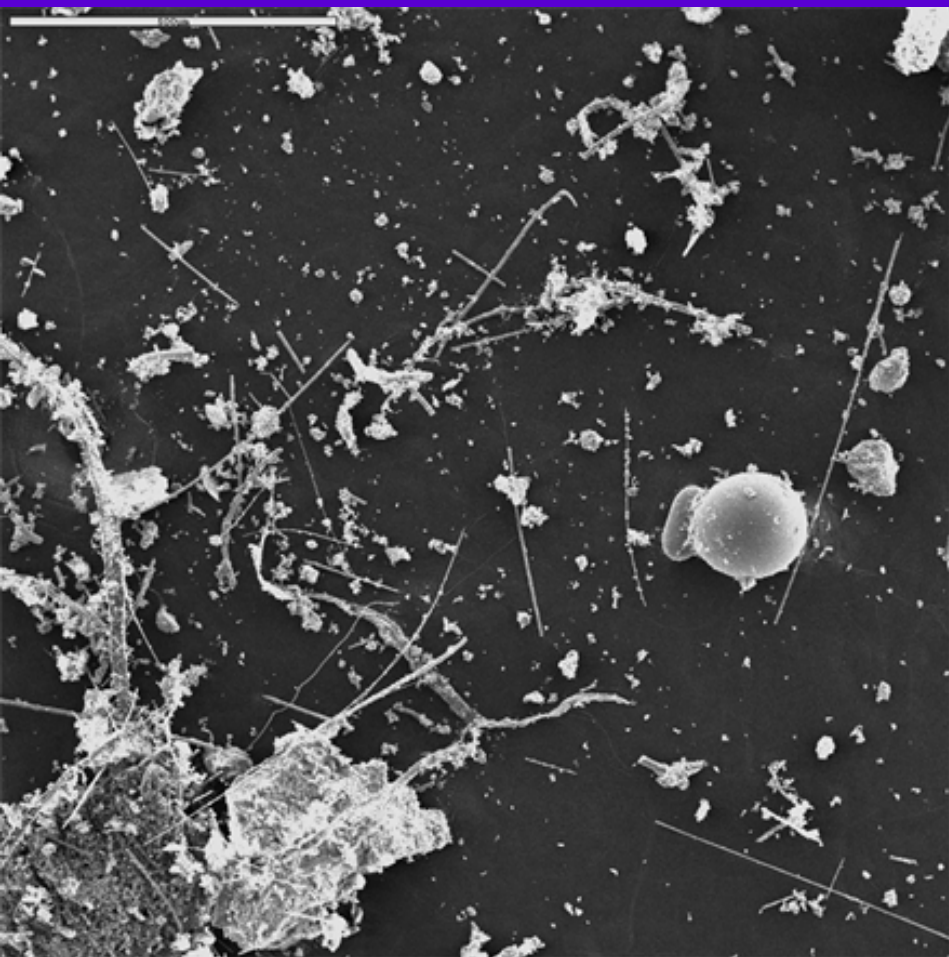
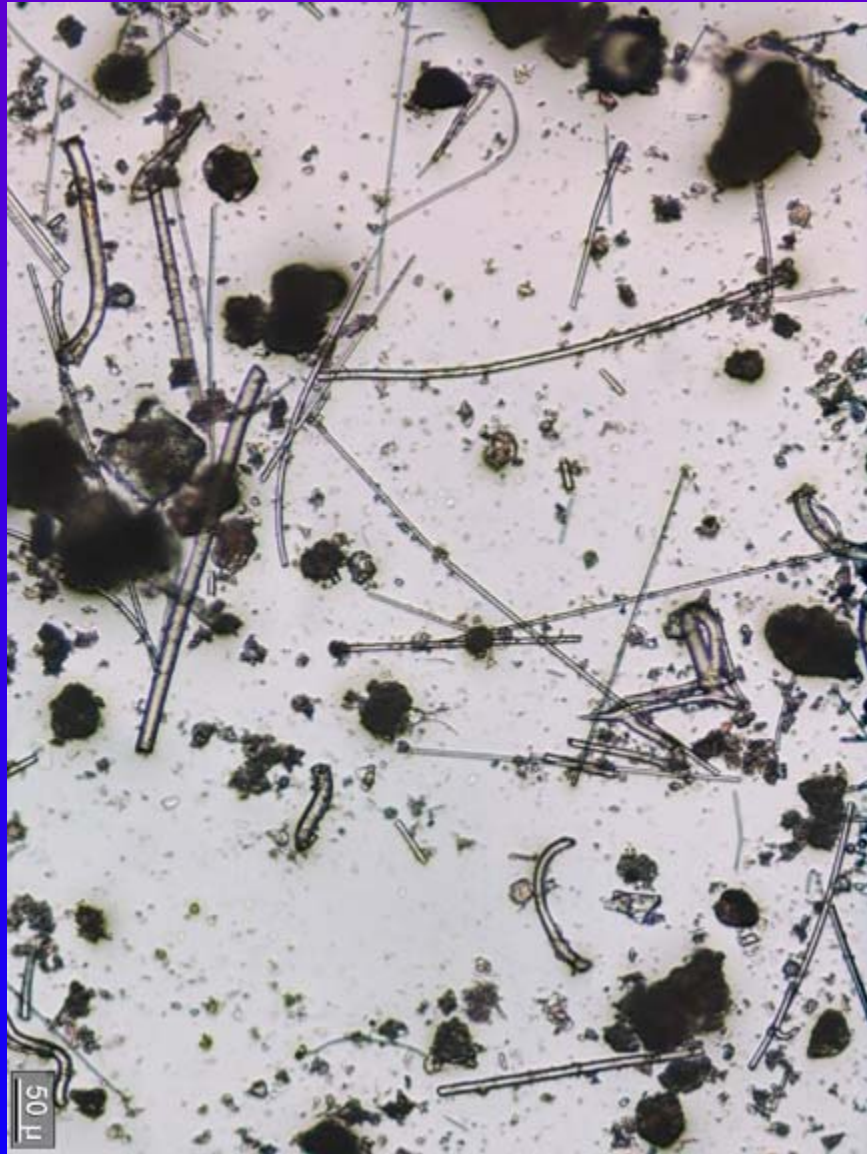


0 0.1 0.2 0.3 0.4  
Kilometers

0 0.1 0.2 0.3 0.4  
Miles

Base Map Source: 2000 U.S. Census  
TIGER / Line Data for New York County



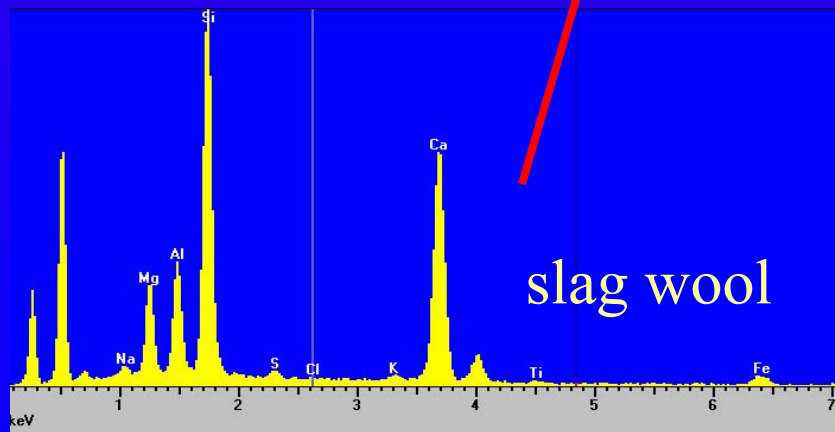
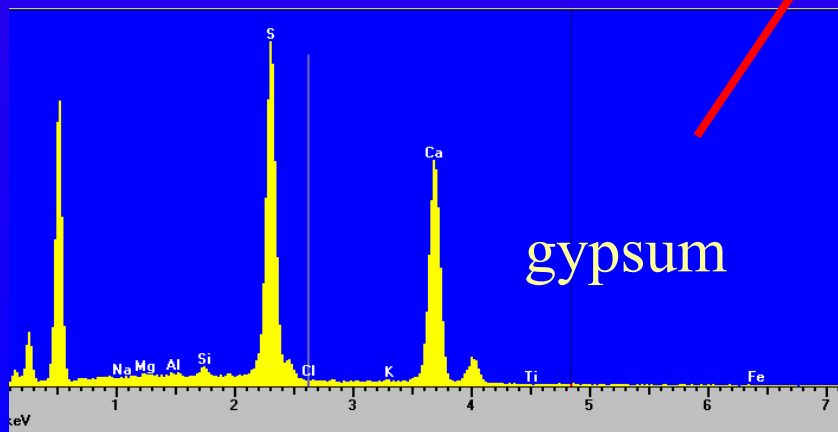
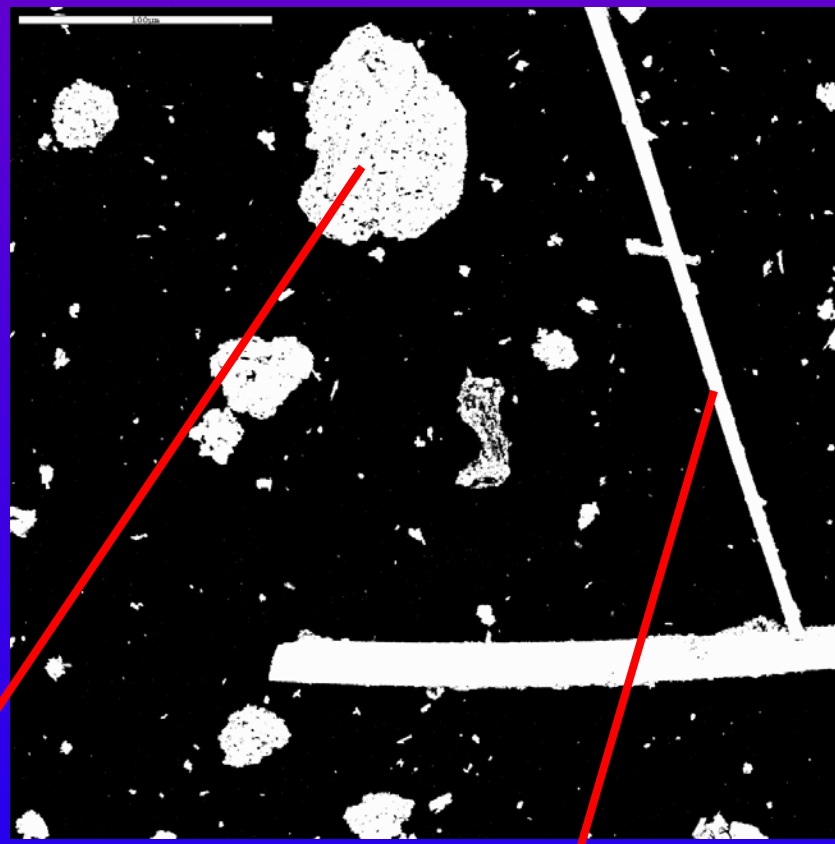
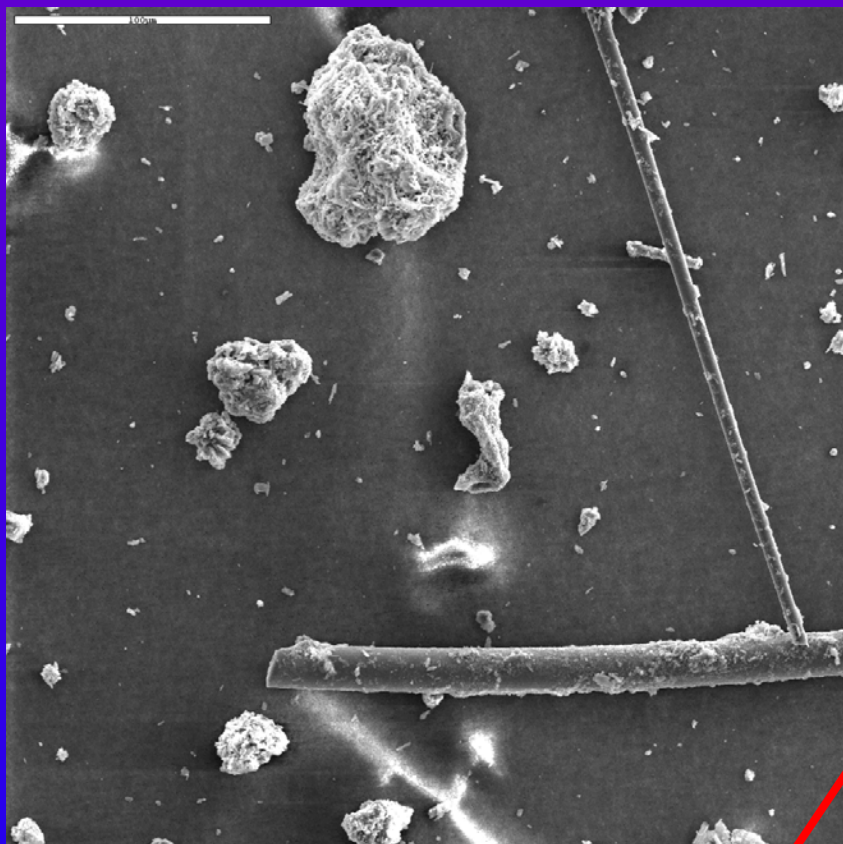


Tower 1



Battery Park





## **Environmental Studies of the World Trade Center area after the September 11, 2001 attack.**

**Roger N. Clark, et al, 2001**

U. S. Geological Survey, Open File Report OFR-01-0429

## **Characterization of the Dust/Smoke Aerosol That Settled East of the World Trade Center (WTC) in Lower Manhattan after the Collapse of the WTC 11 September 2001**

**Lioy, P.J., et al, 2002**

Environ. Health Perspect. 110

## **Chemical Analysis of World Trade Center Fine Particulate Matter for Use in Toxicologic Assessment**

**McGee, et al, 2003**

Environ. Health Perspect. 111

## **Comparisons of the Dust/Smoke Particulate that Settled Inside the Surrounding Buildings and Outside on the Streets of Southern New York City after the Collapse of the World Trade Center, September 11, 2001**

**Lih-Ming Yiin, et al, 2004**

TECHNICAL PAPER ISSN 1047-3289 *J. Air & Waste Manage. Assoc.* 54

**We already know what is in the bulk dust**  
**i.e. We know the signature “semi-quantitatively”**

Questions to answer

- Are signature components present in background samples?
- At what dilution levels is the signature no longer useful?
- Does the signature change with distance/elevation?
- Is the signature consistent with different sample types – wipe, microvac, air?
- How variable are the signature components from sample to sample?
- Is the relationship between signature components and COPCs consistent

## What we need

- Background samples
- Samples containing different dilutions of WTC dust. *We will need to make some or all of these samples.*
- Protocols for collecting new samples that are compatible with the analytical techniques to be used. Example: filters must have low background for trace element and organic analysis.
- Protocols for collecting new samples that accurately reflect the level of contamination.